10.1300

P/032/60/007/003/002/002

D259/D301

AUTHORS:

Prosnak, WYodzimierz, J., and Kucharzyk, Piotr

(Warsaw)

TITLE:

On a profile with blowing aileron or flap

PERIODICAL: Archiwum budowy maszyn, v. 7, no. 3, 1960, 313 - 333

TEXT: This article was delivered by P. Kucharczyk at the 1959, September 7 - 13 conference on the Zaklad Mechaniki Cieczy i Gazow IPPT - PAN (PAS - IPPT Section of the Mechanics of Liquids and Gases), in Augustow. The purpose of the authors' work was to examine the aerodynamic properties of profiles with blowing ailerons or flaps. Experiments carried out by the Katedra aerodynamiki politechniki Warszawskiej (Aerodynamics Department of the Warsaw Polytechnic) on the flow around the airfoil with a jet flap only in the central section of the span, shows that an increase of the angle of attack appears also at the end section of the airfoil not directly affected by the jet. The effect of the jet preventing the separation of the boundary layers is ev-

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P/032/60/007/003/002/002 D259/D301

On a profile with blowing...

ident only in the central section under the direct influence of the jet. It was further established that with a blowing jet, the separation of the boundary layers from the airfoil end sections occurs at smaller angles of attack than without the help of the occurs at smaller angles of attack than without the help of the jet. For their treatment of the problem, the authors assumed a jet. For their treatment of the problem, the authors assumed a jet and the ailsteady flow of an ideal fluid. The airfoil profile and the ailsten as well as the mechanical flap, were represented by rectilinear sections and the jet sheet in the trailing edge of the airfoil profile by a jet source on the profile proper. On the airfoil profile by a jet source on the profile proper. On the basis of these ideal conditions, the authors derived the formulas for the lift, momentum and drag coefficients through mathematical treatment, based to some extent on the conformal representations given by J. Bonder, on the magnitudes for circular flow governed by Zukowski's condition / Abstracter's note: flow governed by Zukowski's condition / Abstracter's note: Condition not defined / and on the Blasius-Czapiygin / Abstracter's note: Not defined / equations. The lift is expressed by the formula

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On a profile with blowing...

$$c_{y} = f_{1}(\alpha, \beta, \delta_{1}, \delta_{2}, \delta_{3}) + f_{2}(c_{j}, \alpha, \beta, \delta_{1}, \delta_{2}, \delta_{3})$$
(48)

and the drag by formula

(44)

where d is the angle of attack; β , the flap angle; c_j, the flow coefficient, δ_1 , δ_2 , and δ_3 , the geometrical parameters, flow coefficient, δ_1 , δ_2 , and δ_3 , the geometrically by math—the functions f_1 and f_2 are defined parametrically by math—the functions f_1 and f_2 are defined parametrically by math—the functions f_1 and f_2 are defined parametrically by math—the functions f_1 and f_2 are defined parametrically by math—the functions f_1 and f_2 are defined parametrically by math—the functions and f_2 are defined parametrically by math—the functions f_1 and f_2 are defined parametrically by math—the functions f_1 and f_2 are defined parametrically by math—the functions f_1 and f_2 are defined parametrically by math—the function f_2 are defined parametrically by math—the functions f_1 and f_2 are defined parametrically by math—the functions f_1 and f_2 are defined parametrically by math—the function f_2 and f_3 are defined parametrically by math—the function f_1 and f_2 are defined parametrically by math—the function f_3 are defined par

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On a profile with blowing...

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1(3-24).

ASSOCIATION:

Katedra **de**rodynamiki **Po**litechniki Warszawskiej (Aerodynamics Department of the Warsaw Polytechnic Institute)

SUBMITTED:

February, 1960

Card 4/4

37959 P/032/62/009/001/004/004 D265/D308

96.4100

AUTHORS:

Prosnak, Włodzimierz, Juliusz and Łuczywek, Eugeniusz

(Warsaw)

TITLE:

Weighing machine for testing propellers rotating in

opposite directions

PERIODICAL: Archivum budowy maszyn, v. 9, no. 1, 1962, 145 - 167

TEXT: In order to investigate the mutual influence of two concentrically positioned propellers running in opposite directions under various working conditions the test rig has been designed in order to measure simultaneously the drags and torques of each of the two propellers revolving at various speeds, at varied distances and with different positions of blade angles. The best rig was used in the wind tunnel (1120 mm air flow area) at the Department of Aerodynamics of the Warsaw Polytechnic Institute. The performance of the model was studied in order to verify its suitability for dimensional analysis purposes when designing full scale test rig for full size propellers. The authors give descriptions and drawings of hub arrangement for adjusting blade angles, the Wheatstone bridge circard 1/2

P/032/62/009/001/004/004 D265/D308

Weighing machine for testing ...

cuits for measuring the deflection of springs using tensometers, the 3-phase electric motor drive where the variable speeds have been obtained by changing the frequency according to the principle due to J. Bukowski (Zeszyt Instytutu Aerodynamicznego, Warszawa 1939 - no. 7) and the calibration apparatus. The description of the test procedure, the results of the preliminary tests performed on two-bladed adjustable propellers of known characteristics and the discussion on the reliability and suggestions for improvement conclude the paper. There are 20 figures.

ASSOCIATION: Katedra aerodynamiki politechniki Warszawskiej (Depart-

ment of Aerodynamics of the Warsaw Polytechnic Insti-

tute)

SUBMITTED: October 1961

Card 2/2

PROSNAK, Wlodzimierz J.

On the viscous flow near the stagnation point on an interface. Archiw mech 14 no.3/2:505-542 162.

1. Department of Fluid Mechanics, Institute of Basic Technical Problems, Polish Academy of Sciences, Warsaw.

PROSNAK, Wlodzimierz J. (Warszawa)

On a certain property of two-dimensional flows with slip lines. Archiv bud masz 9 no 2:273-274 162.

PROSNAK, Wlodzimierz J. (Warszawa)

A note on the application of Pohlhausen's method to the stagnation point flow. Archiw bud masz 10 nd.1:3-14 163.

L 22603-65 EXT(1)/EXP(m)/EXG(y)/FCS(k) Pd-1/Pe-5 WN P/0033/64/016/003/0689/0708

AUTHOR: Prosnak, W. J. (Warsaw)

TITLE: The asymmetric hypersonic blunt-body problem

SOURCE: Archiwum mechaniki stosowanej, v. 16, no. 3, 1964, 689-708

TOPIC TAGS: shock wave physics, flow field, blunt body problem, supersonic flow, asymmetric case

ABSTRACT: The direct problem of calculating the two-dimensional, steady, rotational, inviscid flow field between a profile at an angle of attack a and a detached shock wave in the region limited by sonic lines is discussed. The value of the ratio of specific heats of the gas is assumed to be the same on both sides of the shock and through the entire field. Reas gas effects are not considered. The first approximation of the method integral relations proposed by Dorodnitsyn is applied here to asymmetric blunt-body flows. Three partial differential equations (the continuity and momentum equations) describing the flow are reduced to three ordinary differential equa-

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L 22603-65 ACCESSION NR: AP5001257

tions with unknown initial values for the sought functions (the nondimensional velocity at the body $v_b(s)$, the shock-wave angle $\sigma(s)$, and the shock wave distance $\delta(s)$. A fourth ordinary differential for calculating streamlines is added on the strength of the assumption that the stream function \(\psi \) must be constant along a streamline. The first three ordinary differential equations are integrated from the chosen initial point and with chosen initial values, the stagnation point being selected as the starting point in this instance. As the three initial values (the shock-wave distance on, the shock wave angle σ_0 , and the position (coordinate) of the stagnation point x_0) are unknown, three conditions are imposed: two conditions are provided by two sonic points on the profile (the velocity slope remains finite), and the third states that the maximum entropy streamline is identical with the "stagnation streamline". The calculations consist of two parts: 1) computation of the initial values x_0 , σ_0 , and δ_0 by means of an iteration method; and 2) computation of final results such as the velocity and pressure distributions along the body and along the shock, of the stagnation streamline, and the critical line, the characteristic directions along the critical line, ercetera. Flow charts of the methods for computing x_0 , a_0 , and a_0 , also for Card 2 / 3

L 22603-65 ACCESSION NR: AP5001257

computing the streamlines and their sonic points are presented. Tabuscomputing the streamlines and their sonic points are presented. Tabuscomputing the streamlines and their sonic points are presented. Tabuscomputing the streamlines and their sonic points are presented. Tabuscomputing the adiabatic lated initial values of x_0 , x_0 , and x_0 , x_0 , and x_0 , and the shock wave angle x_0 , are given for x_0 and x_0 , and the shock wave angle x_0 , are given for x_0 and x_0 , and x_0 , are given for x_0 , and x_0 , and x_0 , are given for x_0 , and x_0 , and x_0 , are given for x_0 , and x_0 , and x_0 , are given for x_0 , and x_0 , and x_0 , are given for x_0 , and x_0 , and x_0 , are given for x_0 , and x_0 , and x_0 , are given for x_0 , and x_0 , and x_0 , are given for x_0 , and x_0 , and x_0 , are given for x_0 , and x_0 , and x_0 , are given for x_0 , and x_0 , and x_0 , are given for x_0 , and x_0 , and x_0 , and x_0 , and are given for x_0 , and x_0 , and x_0 , are given for x_0 , and x_0 , are given for x_0 , and x_0 , and x_0 , and x_0 , and x_0 , are given for x_0 , and x_0 , are given for x_0 , and x_0 , and x_0 , and x_0 , are given for x_0 , and x_0 , and x_0 , are given for x_0 , and x_0 , and x_0 , are given for x_0 , and x_0 , and x_0 , are given for x_0 , and x_0 , are given for x_0 , and x_0 , are given for x_0 , and x_0 , and x_0 , are given for x_0 , and x_0 , are given for x_0 , and x_0 , and x_0 , are given for x_0 , and x_0 , and x_0 , are given for x_0 , are given for x_0 , and x_0 , are given for x_0 , are given for x_0 , and x_0 ,

ASSOCIATION: Department of Mechanics of Fluids, IBTP, Polish Academy of Sciences

SUBMITTED: 00

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SUB CODE: AS, ME

NO REF SOV: 010

OTHER: 011

Card 3 / 3

CIA-RDP86-00513R001343310016-9 "APPROVED FOR RELEASE: 09/19/2001

SOURCE CODE: PO/0032/66/013/003/0357/0363 EMB(m) L 02204-6? ACC NR: AP6032601

AUTHOR: Klonowska, Maria E. (Warsaw); Luczywek, Eugeniusz (Warsaw);

Prosnak, Wlodzimierz J. (Warsaw)

TITLE: Mach number and specific heat ratio effects in axisymmetric flow on the distance of the shock wave

SOURCE: Archiwum budowy maszyn, v. 13, no. 3, 1966, 357-363

TOPIC TAGS: detached shock wave, axisymmetric flow, stagnation point, shock wave physics, axisymmetric supersonic flow, shock stand off distance, Mach number effect, specific heat ratio effect, integral relation computation method, computer programming/GIER digital computer

ABSTRACT: The distance between a detached shock wave and the stagnation point on the flat nose of a circular cylinder in axisymmetric supersonic flow was computed by the integral relations method, in order to investigate the influence of the Mach number and the specific heat ratio on shock standoff distance. The computa-

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CIA-RDP86-00513R001343310016-9 "APPROVED FOR RELEASE: 09/19/2001

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L 02204-67 ACC NR: AP6032601

tions were performed in 20 cases with different Mach numbers and specific heat ratios. The programming for the GIER digital computer used was developed by co-author Luczywek. Comparison of computed values and experimental data yielded no essential discrepancies. Orig. art. has: 4 figures, 1 table, and 4 formulas. [Based on authors' abstract]

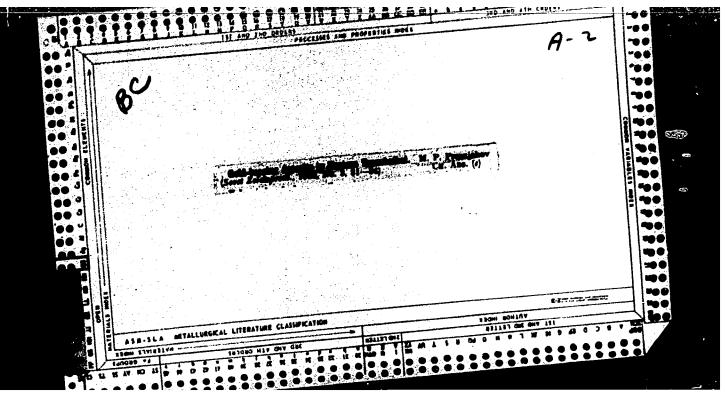
SUB CODE: 09, 20/ SUBM DATE: 00Nov65/ ORIG REF: 002/ SOV REF: 001/

OTH REF: 001/

Card 2/2 2C

PROSNAK IRZYKIEWICZ, Irena

Changes in the composition of blood serum proteins in renal diseases. Lodz. tow. nauk. [IV] 60:7-44 164.

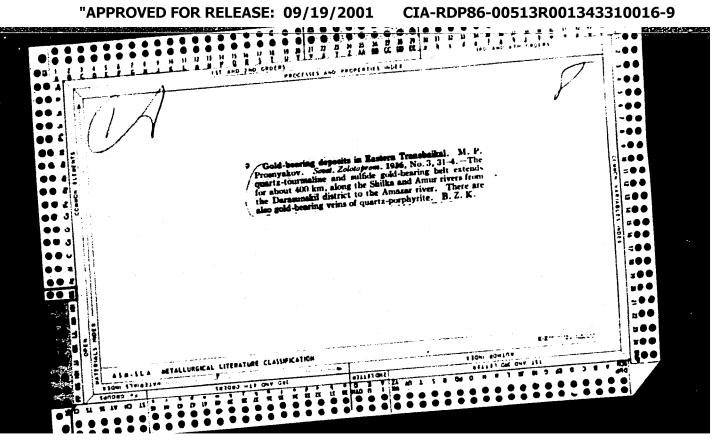


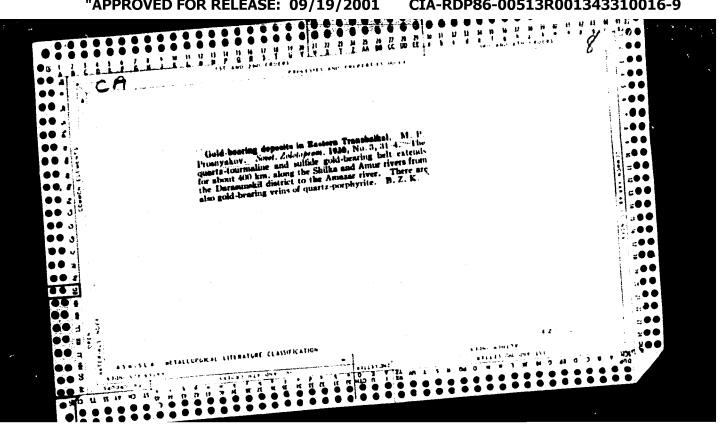
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ANTSUPOV, P.V.; BORODATYY, I.I.; ORLOV, A.A.; PROSNYAKOV, A.V.

Prospects for finding commercial gas in the Bukovina part of the outer zone of the Carpathian piedmont fault. Neftegaz. (MIRA 18:7) geol. 1 geofiz. no.3:37-38 165.

1. Trest "L'vovneftegazrazvedka".





KOSMACHEV, A.Ye. [deceased]; KHOKHLOVA, Yu.M.; KALMYKOVA, G.Ya.; PROSNYAKOVA, I.M.; SERGEYEVA, L.N.

Production and isolation of an antibiotic from the thermophilic Production and isolation of an antibiotic from the thermophilic Production and isolation of an antibiotic from the thermophilic Production and isolation of an antibiotic from the thermophilic Production and isolation of an antibiotic from the thermophilic Production and isolation of an antibiotic from the thermophilic Production and isolation of an antibiotic from the thermophilic Production and isolation of an antibiotic from the thermophilic Production and isolation of an antibiotic from the thermophilic Production and isolation of an antibiotic from the thermophilic Production and Isolation of an antibiotic from the thermophilic Production and Isolation of an antibiotic from the thermophilic Production and Isolation of an antibiotic from the thermophilic Production and Isolation of Alberta Production and Isolation of Alberta Production and Isolation and Isolati

1. Institut mikrobiologii AN SSSR.

PROSOCHKIN, V.M., gornyy inzh.

Stripping operations under difficult mining engineering conditions. Gor. zhur. no.10:77-78 0 '65. (MJRA 18:11)

1. Gosudarstvennyy soyuznyy institut po proyektirovaniyu predpriyatiy gornorudnoy promyshlennosti, Leningrad.

BEDNYKH, V., prepodavatel'; IVANOV, A., instruktor; KONOVALOV, N., prepodavatel'; NESTEROV, N.; PROSOLOV, G., instruktor

Suggestions of active members of the All-Union Volunteer Society for Assistance to the Army, Air Force, and Navy. Za rul. 17 no.1:6

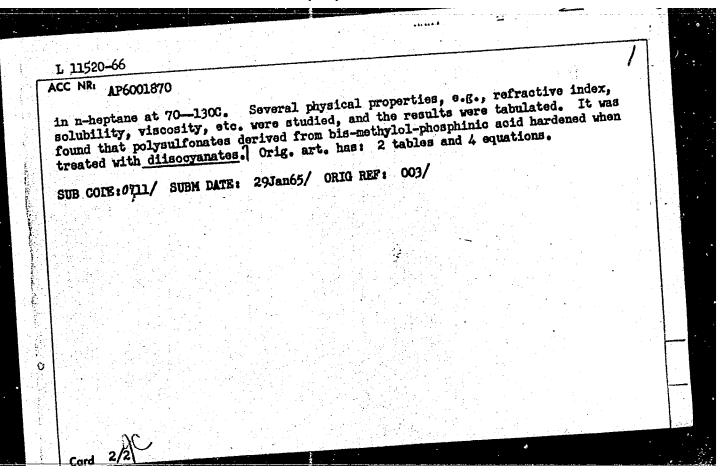
Assistance to the Army, Air Force, and Navy. Za rul. 2:3)

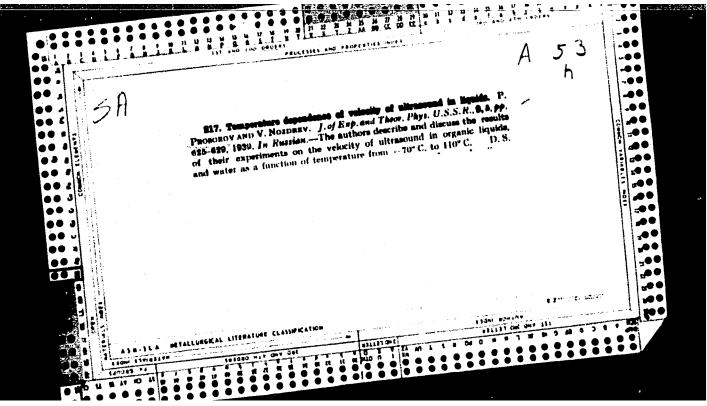
Ja '59.

1. Nachal'nik avtomotokluba, Orenburgskaya oblast' (for Mesterov).

(Automobile drivers)

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A L 11520-66 EWT(m)/EWP(1) RPL WW/RM SOURCE CODE: UR/0190/65/007/012/2146/2149	
ACC NR: AP6001870 ACC NR: AP6001870 AUTHORS: Kuznetsov, Ye. V.; Fayzullina, D. A.; Fayzullin, I. N.; Prosolova, T. N.; Approximately and Approximately ap	
AIFTHORS: Kuznetsov, Ye. V.; Fayzullina, D. A.; Fayzullin, I.	
AUTHORS: Kuznetsov, Ye. V.; Fayzuritan, Avvakumova, N. I. ORG: Kazan' Chemico-Technical Institute im. S. M. Kirov (Kazanskiy khimiko-	
ORG: Kazan' Chemico-recimits tekhnologicheskiy institut) tekhnologicheskiy institut)	
tekhnologicheskiy institut) tekhnologicheskiy institut) TITLE: Interaction of aromatic disulfochlorides with dimethylol-containing organo- phosphorus compounds. 2nd communication in the series Phosphorus-containing poly-	
sulphonates 12, 1965, 2146-2147	
SOURCE: Vysokomolekulyarnyye soyedineniya, V. 7, more something organic sulfur topic TAGS: polymer, polymerination, organic phosphorus compound, organic sulfur compound, sulfonic acid, Onganic synthetic process compound, sulfonic acid, Onganic synthetic process.	
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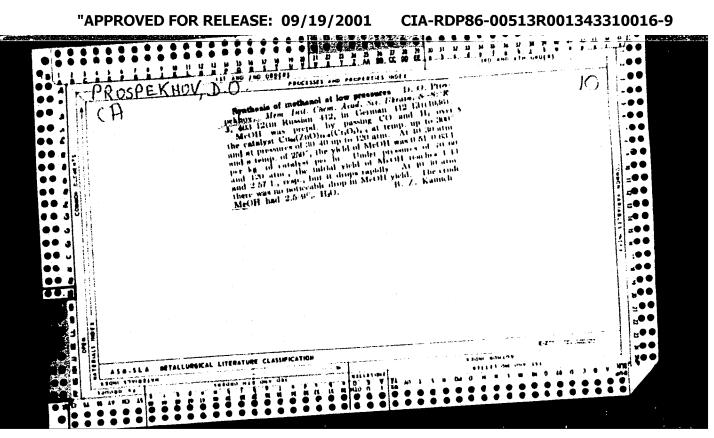
PROSOVICH, P.A., inzh.; YATSENKO, V.A., inzh.

Automatic continuous ore discharge from bunkers. Mekh.i avtom.

(MIFA 17:4)

proizv. 18 no.2:3-6 F '64.

CIA-RDP86-00513R001343310016-9



PROSPEKHOVA, G.P.; GENERALOV, V.I.

Pharmacology of semicarbazide hydrochloride. Farm. i toks. 24 (MIPA 14:10) no.5:623-625 S-0 '61.

1. Kafedra farmakologii, farmatsii i farmakognozii (zav. - zaśluzhennyy deyatel' nauki prof. N.V.Lazarev) Voyenno-meditsinskoy ordena Lenina akademii imeni S.M.Kirova. (SEMICARBAZIDE)

TROSHIN, A.S., otv. red.; ARRONET, N.I., red.; BEYYER, T.V., red.; ZHIRMUNSKIY, A.V., red.; KUSAKINA, A.A., red.; PROSSER, K.L., red.; LOZINA-LOZINSKIY, L.K., red.; POLYANSKIY. YU.I., red.; SUKHANOVA, K.M., red.; USHAKOV, B.P., red.; FEL DMAN, N.L., red.; ALEKSANDROV, V.Ya., red.

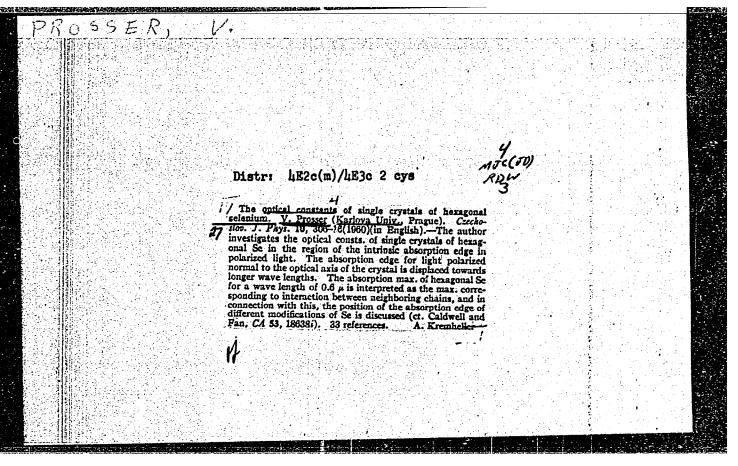
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Kletka i temperatura sredy; trudy. Moskva, Nauka, 1964. 303 p.
(MIRA 18:1)

1. International Symposium on Cytoecology, Leningrad, 1963.

2. Institut tsitologii AN SSSR, Leningrad (for Troshin, Arronet). 3. Laboratoriya kosmicheskoy biologii Instituta tsitologii AN SSSR, Leningrad (for Lozina-Lozinskiy).4. Laboratoriya tsitofiziologii i tsitoekologii Botanichskogo instituta im. V.L.Komarova AN SSSR, Leningrad (for Aleksandrov).

5. Laboratoriya sravnitel noy tsitologii Instituta tsitologii AN SSSR, Leningrad (for Zhirmunskiy, Kusakina, Ushakov).

6. Laboratoriya tsitologii odnokletochnykh organizmov Instituta tsitologii AN SSSR, Leningrad (for Sukhanova). 7. Botanicheskiy institut imeni V.L.Komarova AN SSSR, Leningrad (for Arronet).



24.7100

Z/037/60/000/01/004/014 E024/E520

AUTHOR:

Prosser, Václav

TITLE:

The Preparation and the Optical Constants of Monoclinic

a-Selenium

PERIODICAL: Československý časopis pro fysiku, 1960, Nr 1,

pp 35-40 + 92a (plate)

ABSTRACT: The methods of preparation described in Refs 2 and 6 were modified in the following way. The amorphous selenium was ground to a fine powder. It was then extracted in a Soxhlet's apparatus with HoS. After several extractions, the solution was transferred to the vessel shown in Fig 2. The crystals grew on the cooled U-shaped tube (K). No seed crystals were necessary. The optimum conditions are that the temperature of the cooler is 15-20°C and that the temperature of the saturated solution falls, within approximately half-anhour, from 55°C to 25-30°C. At this temperature, the crystals continue their growth for about 4 hours.

Afterwards, they start dropping to the bottom of the Card 1/3 vessel. The monocrystals had, generally, dimensions up

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The Preparation and the Optical Constants of Monoclinic $\alpha\text{-Selenium}$

to approximately $5 \times 5 \times 0.5 \text{ mm}$. For the optical measurements, $3 \times 3 \times 0.05$ mm crystals with well formed crystallographic faces were used. Both the α and the β modifications were obtained in this way. Mixed crystals of selenium and sulphur were also obtained. crystals were sorted by X-ray analysis. The optical constants in the vicinity of the absorption edge were determined at room temperature by measuring the intensity of transmitted and of reflected light: the method is described in Refs 9,10,11. The results were evaluated by the methods described in Ref 12. A glass monochromator with negligible stray light losses was used. The angle of incidence of the light beam on the crystals was less than 10°. The optical constants were measured with the following accuracies: the absorption constant K(cm) to within 3%, the reflectivity R to 1% and the refractive index n to 1%. The results are shown in Table 2 and Fig 5. Fig 5 also shows the photoelectric sensitivity F Card 2/3 of monoclinic selenium according to Ref 5 and the

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The Preparation and the Optical Constants of Monoclinic α -Selenium

absorption constant for hexagonal (Ref 16) and amorphous selenium (Ref 15). The present method is considerably quicker than previous methods and has produced good single crystals. The agreement of the X-ray data with those of previous authors is good (see Table 1). The optical constants cannot be compared because they have not been systematically determined previously. The shift of the absorption edge of monoclinic selenium relative to hexagonal selenium seems in good agreement with existing theoretical concepts. It seems, on the other hand, that the photoelectric sensitivity observed in Ref 5 was mainly due to impurities. In particular, it is likely that the monoclinic selenium contained a certain amount of the hexagonal component.

There are 5 figures, 2 tables and 20 references, 3 of Card 3/3 which are Czech, 2 Soviet, 9 German and 6 English.

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ASSOCIATION: Katedra fysiky pevných látek Karlovy university v Praze (Chair of Solid State Physics, Charles University, Prague)

SUBMITTED: July 22, 1959

ACCESSION NR: AP4041980 2/0055/64/014/007/0559/0560 AUTHOR: Konak, C.; Prosser, V. TITLE: Temperature dependence of absorption edge of CdSe single SOURCE: Chekhoslovatskiy fizicheskiy zhurnal, v. 14, no. 7, 1964, 559-560 TOPIC TAGS: temperature dependence, absorption edge, cadmium selenide, single crystal, absorption coefficient, photoconductivity maximum ABSTRACT: The results of measuring the temperature dependence of the absorption coefficient of CdSe in a wavelength range of 0.6 to 1 micron and a temperature range of 125 to 459K are given. Thin plane-parallel plates 10 to 20 microns thick grown from the vapor phase by Frerich's method were measured; a Zeiss mirror monochromator and an M12Q photomultiplier tube were used in the measurements. The temperature dependence of the absorption coefficient for K = 103 cm-1 is shown graphically. This dependence was linear for the energy

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001343310016-9

10915-66 EWP(e)/EWP(t)/EWP(b) ACC NR. AP6002038 IJP(c) JD/WH SOURCE CODE: GE/0030/65/012/002/0697/0705 AUTHOR: Prosser, V.; Kuzel, R. mint and in the control of the contr ORG: Department of Solid State Physics, Charles University, TITLE: Determination of parameters of complex energy bands in semiconductors from studies of free carrier Faraday rotation, Voigt effect, and transport properties SOURCE: Physica status solidi, v. 12, no. 2, 1965, 697-705 TOPIC TAGS: semiconductor, Voigt effect, Faraday effect, energy band, band theory, Hall effect, semiconducting material, magnetoopties, transport property, summerbuctor ABSTRACT: In view of the recently developed sensitive double-beam method which makes it possible to measure angles of rotation of the plane of polarization of the order of 10^{-2} degrees with good accuracy, the authors suggest that experimental magnetooptical data be used with data on transport properties to determine fundamental parameters of semiconductors with complex bands. The authors then derive general formulas for the Faraday rotation and the Voigt effect for the case of one type of carriers and several types of carriers and discuss the relationship between these phenomena and the general transport properties. The general formulas are then applied to the case when the valence band consists of three subbands. The theoretical data for diamond and germanium are compared with the experimental results. It is concluded that in the case of complex bands the Faraday rotation and the Voigt effect give valuable information in addition to the data obtained Card 1/2

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ACCESSION NR: AP5006836 2/0055/65/015/002/0128/0134

AUTHOR: Prosser. V.

TITIE: Sensitive method of measuring small changes in light intensities; its use in measurements of high effective masses in semiconductors from Faraday rotation

SOURCE: Chekhoslovatskiy fizicheskiy zhurnal, v. 15, no. 2, 1965, 128-134

TOPIC TAGS: light intensity, light intensity measurement, semiconductor, Faraday rotation, diamond

ASSTRACT: The double-beam method was used for measuring small angles of Faraday rotation of an order of 10-3 deg. It can be used in any optical measurement in-

12 equations.
Card 1/2

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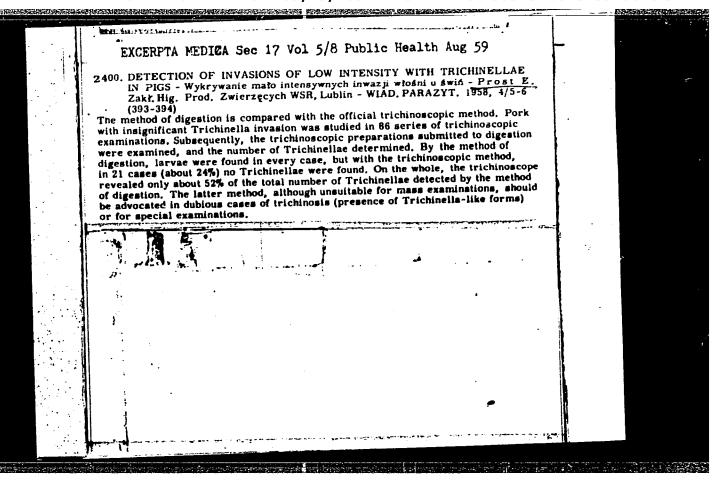
ACCESSION NR: AP5006836

ASSOCIATION: Faculty of Mathematics and Physics, Charles University, Prague

SURVITTED: 29Aug64 ERCL: 00 BUB CODE: 53, OP

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Card 2/4 PBROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001343310016-9



FROST, Midmund SURJANA, Miven Marses

Country: Poland

Academic Degrees: Doc dr

Affiliation: Inot given7

Source: Warsaw, Medycyna Weterynaryjna, Vol XVII, No 6, June 1961, pp 336-338.

Data: "On the Value of Trichinoscopic Examinations."

PROST, Edmund

Studies on the incidence of human trichinosis. Windomosci parazyt., Warsz. 4 no.5-6:369; Engl. transl. 369-370 1958.

1. Z Zakladu Higieny Produktow Zwierzecych WSR w Inblinie. (TRICHINOSIS, epidemiology, (Pol))

PROST, Edmund

Detection of low-intensity trichinosis invasions in swine. Wiadomosci parazyt., Warsz. 4 no.5-6:393; Engl. transl. 394 1958.

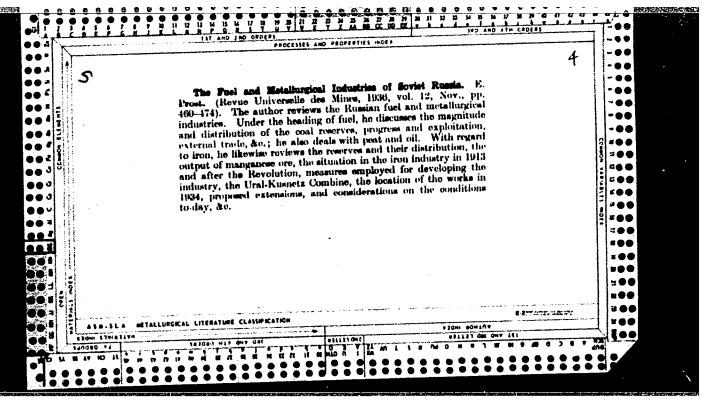
1. Z Zakladu Higieny Produktow Zwierzecych WSR w Lublinie.

(TRICHINELIA
detection in port (Pol))

PROST, E.

"Research on the Application Antibiotics in the Production of Caused Mest; a sum ary, P. 495, (MEDYCYNA WETERYMANTUM, Vol. 8, No. 11, Nov. 1952, Marazana, Poland)

SO: Monthly List of East European Acce sions, (EEAL), LC, Vol. 4, No. 5, May 1955, Uncl.

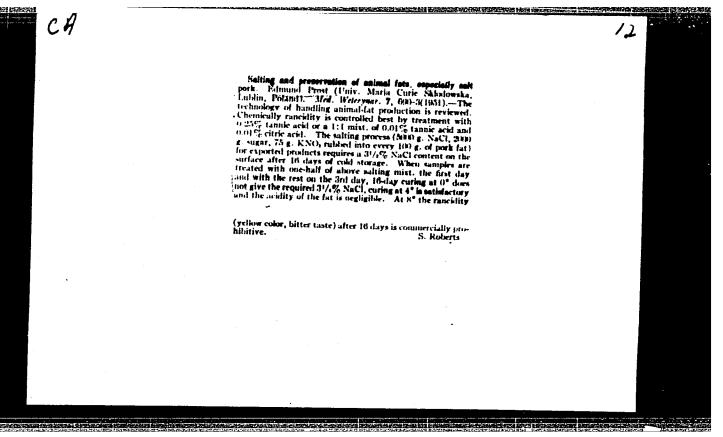


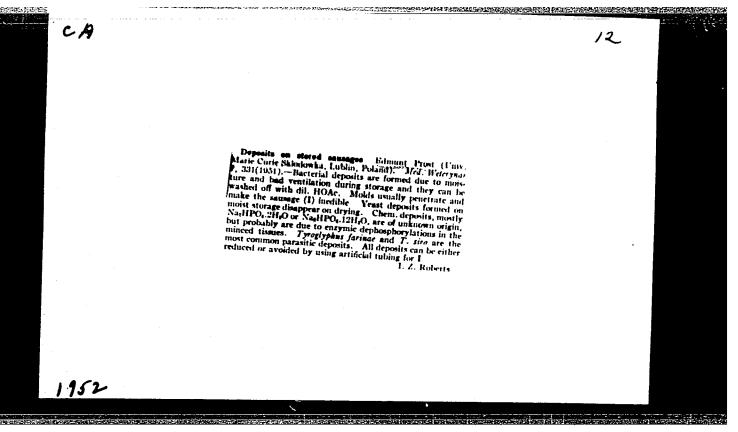
PROST, E.; CIESLA, E.

Some observations on swine erysipelas from the point of view of the hygiene of food products. p. 253. (MEDICINA WETERINARY JNA. Vol. 9, no. 6, June, 1953)

SO: Monthly List of East European Accessions, L.C., Vol. 3, No. 4, April, 1954

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001343310016-9"





POLAND

and the construction of the second section of the section

PROST, Edmund [Affiliation not given], D

"Eighth Session of the Section of Hygiene of Food Products of the Scientific Association of Veterinary Medicine in the German Democratic Republic (East Germany)

Warsaw-Lublin, Medycyna Weterynaryjna, Vol 19, No 7, Jul 63, pp 404-405

Abstract: Report on the meeting in title held in Ostseebad Kühlungsborn on 14-16 May, 1963, where Docent, Dr. Edmund Prost of Lublin and Docent, Dr. Stanislaw Zaleski of Olsztyn represented Poland, with a listing by sections of participants and titles of papers read. There are no references.

1/1

POLAND

PROST, Edmund [Affiliation not given]

"The Problem of Prucellosis in the Hygiene of Food Products." Warsaw-Lublin, Medycyna Weterynaryjna, Vol 19, No 6, Jun 63, pp 310-314.

Abstract: The author discusses the various types of pathogenic Brucella and their predominant specificity in the species of domestic animals and man, against the background of conflicting incidence of the disease in animals and humans. He takes issue with prevailing sanitary regulations concerning slaughter meat in the USSR and Western countries, and calls for universal regulations concerning all meats and meat products for the effective control of this disease. The 37 references comprise one Soviet source, the others being about one half each German and Western.

| 1/1

6 ____

POLALD

BEKAULO, Romuald and PROST, Edmand, Chair for the Hygiene of Animal Products (Katedra Higieny Produktow Zwierzecych), Veterinary Division (Wydzial Weterynaryjny), WSR [Wyzsza Szkola Rolnicza, Higher School of Agriculture] in Lublin (Director: Docent, Dr. Edmund PROST)

"Colibacteriosis of Slaughter Chickens."

Warsaw-Lublin, Medycyna Weterynaryjna, Vol 19, No 3, Mar 63, PP 143-145.

Abstract: [Authors' English summary modified] A sanitary veterinary study covering 30,230 chickens revealed 211 or 0.7 percent cases with pericarditis serofibrinosa. pathogenic agent was disclosed to be E coli of sorotypes 071, 08, and 03. Bacteriological examination of the muscle tissue of the affected animals revealed a strong bacteriaemia with E. coli, and the authors recommend that such chicken should be marked as conditionally fit for consumption. There are 9 references, of which 2 are Polish, 3 German, and 4 English.

PROST, Edmund, &oc, dr. (Lublin)

Research on brucellosis in cattle with regard to the sanitary and veterinary evaluation of the meat. Rocz nauk roln wet 70 no.1/4: 409-411 *60. (EEAI 10:9)

(Cattle) (Brucellosis) (Meat)

POLAND

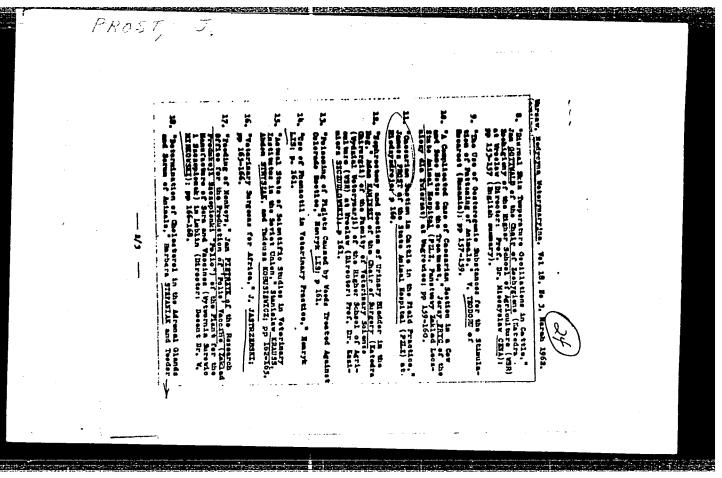
BOJARSKI, Jan, Chair of Sanitation of Animal Products of the Veterinary College of the Agricultural University, Lublin (Katedra Higieny Produktow Zwierzecych Wydz. Wet. WSR) Head (Kierownik) Prof. Dr. Edmund PROST

"Pathogenic Microorganisms in the Slaughterhouse Pipes. Microorganisms of

Lublin, Medycyna Weterynaryjna, Vol 22, No 11, Nov 66; p. 670-671

Abstract [English summary modified]: From September 1965 to February 1966, 560 samples of drain-water effluent from the Lublin slaughterhouse revealed a samples to be contaminated with Salmonella: 2 strains of Salmonella dublin and 1 of Salmonella choleraesuis kunzendorf. This is much better than comparable data for several other European slaughterhouses. 2 tables, 1 Polish, 8 German references, including 2 theses.

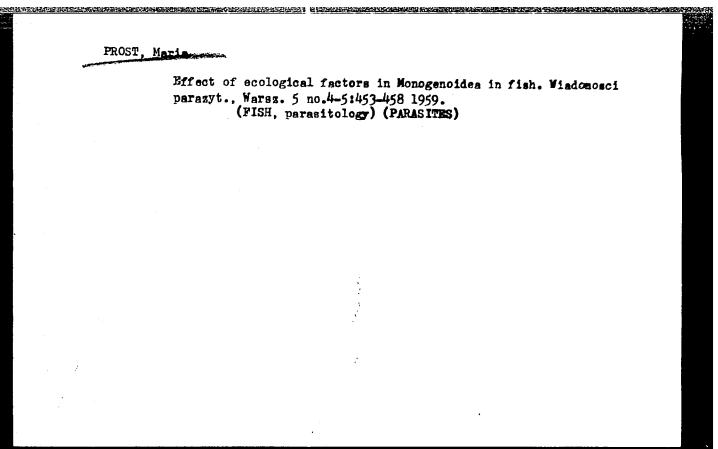
1/1



PROST, Maria

Investigations on the development and pathogenicity of Dectylogyrus anchoratus (Duj., 1825) and f. extensus Mueller et v. Cleave, 1932 for breeding carps. Acta parasit Fol 11 no.1/4:17-48 '63.

1. Department of Parasitology and Parasitic Diseases, Agricultural University College, Lublin. Heads prof. dr Fugeniusz Maraywski.



POLAND

PIDST, Maria [Affiliation not given]

"Department of Parasitology in the Veterinary Saculty in Brao."

Warsaw-Lublin, Medycyna Weterynaryjna, Vol 1), No 1, Jan 63, pp 47-43.

Abstract: Authors report on the department following a personal visit. No references.

1/1

Studies on the application of proteolytic enzymes of vegetable origin in ascariasis in chickens. Wiadomosci parazyt., Warsz. 4 no.5-6:583-584; Engl. transl. 584-585 1958. 1. Z Zakladu Parazytologii i Chorob Inwazyjnych WSR w Lublinie. (PROTEASES, ther. use. ascariasis in chickens (Pol)) (ASCARIASES, ther. proteases, in chickens (Pol)) (FOWIS, DOMESTIC, die. ascariasis, protease ther. (Pol))

PROST, Maria

Effect of water salinity on Monogenoidea in fish gills. Wiadomosci parazyt., Warsz. 4 no.5-6:637; Engl. transl. 638 1958.

1. Z Zakladn Parazytologii i Chorob Inwazyjnych WSR w Lublinie. (FISH, diseases, Monogenoidea infect., eff. of salinity (Pol))

PROST, Maria

Vegetable proteclytic enzymes in the treatment of human and animal helminthiases. Wiadomosci parazyt. Marsz. 4 no.4:323-329 1958.

Z Zakladu Parazytologii i Chorob Inwazyjnych W. S. R. w Lublinie.
 (PROTEASES, ther. use.
 helminth infect., review (Pol))
 (ANTHEIMINTICS. ther. use.
 proteases, review (Pol))

POLAND

PROST, Maria: and STUDNICKA, Maria. Department of Fish Breeding of the Veterinary College of the Agricultural University (Zaklad Chorob Ryb Wydzialu Weterynarii WSR) Head (Kiercwnik) Docent Dr. Maria PROST, Lublin

"Investigation on the Use of Organic Esters of Phosphoric Acid in the Control of External Parasites of Farmed Fish. Control of the Invasion of Parasites of Dactylogyrus and Gyrodactylus"

Lublin, Medycyna Weterynaryjna, Vol 22, No 11, Nov 66; p. 644-650

Abstract [English summary modified]: Continuation of study on use of organic phosphates in the treatment of fish parasites: Red-Chinese-made chlorophos, Bayer's Neguvon, and East German Trichlorphon were studied. Dactylogyrus parasites were rather resistant; best results were made by treating the fish right in the pond with Neguvon 1:750,000 for 24 hours, or 1:1,000,000 for 48 hours at water temperatures of 18-24 C; this cwedall the young carp and was safe to fish, but not to the natural food of the fish; Cladocera, Copepodes, insect larvae, etc. all died, latter is fished out, or else fish would starve while being cured of their infection. 4 tables; 1 Polish, 3 Western references.

1/1

PROST, M.

New views on methods of research and problems of ichthyoparasitology. p. 156 MEDYCYNA WETERYNARYJNA. Vol. 9, no. 4, Apr. 1953.

SO: Monthly List of East European Accessions, L.C., Vol. 3, No. 4, April, 1954

PROSTAKOV, A , inzh.-kapitan 1 ranga

Hydroacoustics. Voen. znan. 41 no.1:36-37 Jz '65.

(MIRA 18:2)

Stalingrad Branch of the All-Union Society of Soil Scientists in 1957 and 1958. Pochvovedenie no.10:122 0 '59.

(MIRA 13:2)

(Stalingrad Province—Soil research)

SOV/124-58-3-3115

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 3, p81 (USSR)

AUTHOR: Prostak, F. A.

TITLE: An Experiment in the Calibration of a Metering Weir (Opyt

tarirovaniya mernogo vodosliva)

PERIODICAL: V sb.: Gidroturbostroyeniye. Nr 4, Moscow-Leningrad, Mashgiz, 1957, pp 73-92

ABSTRACT:

The author describes in detail the calibration of the metering weir of the small low-head stand of the Water-turbines Laboratory of the Leningrad Metals Plant. The maximum discharge of the sharp-crested weir is 264 liter/sec with a head on the crest of 405 mm. The width of the trough is 500 mm. The calibration was made with a uniform distribution of velocities in the vertical and horizontal planes of the feeding trough, which was accomplished by the installation of transition fairing. From the results of the calibration, values of the discharge coefficient were calculated; these coincided best with the results of calculations made in accordance with the Swiss Society of Engineers and Architects and the T. Rehbock weir formulae. The formulae of Bazin and Hansen produced deviations greater than the two former ones.

Card 1/2

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SOV/124-58-3-3115

An Experiment in the Calibration of a Metering Weir

It has been established that the relationship Q = f(H) for a weir is influenced by the shape of the velocity distribution upstream of the weir; therefore, when using any empirical formulae of the discharge coefficient it is recommended that one make sure that the velocity distribution is actually similar to that distribution for which a certain formula was obtained.

V. V. Fandeyev

Card 2/2

PROSTAKISHIN, G.P.; SHKODICH, P.Ye.

Refractometric method of determining the dried defatted residue of milk. Vop.pit. 22 no.1:57-59 Ja-F'63 (MIRA 16:11)

1. Is karedry gigiyeny pitaniya (zav. - prof. M.P. Bolotov) Irkutskogo gosudarstvennogo meditsinskogo instituta.

L 29980-65 EEO-2/FSS-2/ENT(1)/ENA(d)/EWA/EED-2/FCS(k)

ACCESSION NR: AP5005019 S/0017/65/000/001/0036/0037

AUTHOR: Prostakov, A. (Engineer, Captain of first rank)

TITLE: Hydroacoustics

SOURCE: Voyennyye zneniya, no. 1, 1965, 36-37

TOPIC TAGS: hydroacoustics, underwater equipment hydrophone, homing torpedo, soner

ABSTRACT: The development of the modern submarines (including atomic powered ones for long submarged cruises, carrying weapon systems capable of being fired while submerged) has stimulated research and development in underwater detection and communication. Electromagnetic waves do not penetrate water for long distances, and acoustic devices must be relied on (a 22.5-kg charge exploded off the shore of Australia was detected acoustically 19200 km away at Bermuda 3 hours 43 minutes

L 29980-65

ACCESSION NR: AP5005019

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Such systems have reported effectiveness for distances up to 220 km. Since these systems are only passive listening devices, an active hydrolocator (sonar) has been perfected. An acoustic pulse is radiated from a complex antenna and is then shifted to a receiving antenna for registering the echo. This system will pick out any object which reflects the acoustic pulse (ships, whales, rocks, etc). It completely determines the coordinates of the target, target depth course, and speed. All such information is automatically recorded and fed to fire control systems. For antisubmarine aircraft, hydrophone buoys have been developed. They can be dropped by a plane into the water. The buoy then lowers a listening microscope and transmits by radio to the search plane any noises it picks up. The plane can then attack the submarine with either homing torpedoes or homing rocket torpedoes. Work has been completed on an echo ice meter which gives a continuous dia-

L 64997-65 ENT(1)

ACCESSION NR: AP5017055

UR/0375/65/000/007/0073/0079

AUTHOR: Prostakov, A. L (Candidate of naval sciences, Docent, Engineer, Captain)

TITIE: Nonacoustic techniques for detecting submarines

21 31

SOURCE: Morskoy sbornik, no. 7, 1965, 73-79

TOPIC TAGS: radar detection, submarine, magnetic detection equipment, magnetic detection, laser detection, laser, detection equipment, detection system, optic detection

ABSTRACT: Hydroacoustic techniques for detecting submarines have been widely used in the past despite the fact that sound waves from submarines are subject to refraction and interference, are difficult to distinguish among waves from other sources, are propagated slowly, and cannot be detected by aircraft.

eters, the latter being used to detect atomic submarines.

Antisubmarine aircraft use side-looking radars, such as the American AN/APQ-55. The possible use of radars operating in the mm radio-wave range Cord 1/5

L 64997-65

ACCESSION NR: AP5017055

(36—46 Ghz) for the detection of changes in the reflecting properties of the ocean surface due to the movement of a submerged submarine is being investigated. A widely used type of magnetometer detects for comagnetic budies, such as submarines, by reacting to an increase in the stabilized magnetic field in-

The use of ultrasonic television, so-called "phonovision," is limited because ultrasonic waves are heavily damped in water. The use of lasers operating in the blue-green spectrum range, the waves of which are least absorbed by water, as well as the use of glass with necesymium admixtures or a liquid containing admixtures of terbium as active materials in lasers operating underwater, is now being studied. It is not yet known if the present 900-m range of underwater lasers can be extended.

Card 2/3

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L 6287-66 EWT(d)/EPA/EWT(m)/EWP(1)/T-2/EWA(c) ACC NR: AP5026841 SOURCE CODE: UR/0286/65/000/017/0134/0134 INVENTOR: Prostakov, ORG: none TITLE: Intermediate air cooling system for a multistage compressor of a turbojet Class 46, No. 79921 SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 17, 1965, 134 TOPIC TAGS: turbojet engine, gas turbine engine, jet engine ABSTRACT: An Author Certificate has been issued for an intermediate air cooling system in a multistage compressor of a turbojet engine, using air-air heat exchangers mounted in a duct. In order to reduce the inner aerodynamic resistance of the exchanger assembly, the cooling air flowing through the duct is ejected by the flow of gases which is discharged from the engine exhaust nozzle. [AV] SUB CODE: PR/ SUBM DATE: 27Sep47/ ORIG REF: 000/ OTH REF: 000/ ATD PRESS:

PROSTAKOV, A.L., kand. voyenno-morskikh nauk, dotsent, inzhener-kapitan l-go ranga

Nonacoustic means of detecting submarines. Mor. sbor. 48 no.7:73-79 J1 '65. (MIRA 18:8)

ACC NR: AP6033311

SOURCE CODE: UR/0375/66/000/010/0068/0071

AUTHOR: Prostakov, A. L. (Docent; Candidate of military sciences; Engineer; Captain

of first rank)

ORG: none

TITLE: Submarine noise reduction methods

SOURCE: Morskoy sbornik, no. 10, 1966, 68-71

TOPIC TAGS: acoustic noise, submarine, underwater description, section, submarine, building angineering

ABSTRACT: The problems of designing submarines to reduce noise are discussed. Theoretical research is first conducted in laboratories on models, and ultimately tests are conducted on actual submarines. To combat noise problems, submarine design has been modified to make the ship smoother, with all possible protruding objects including acoustic antennas being removed. The greatest source of noise in submarine is the screw propellers. In order to decrease this noise, screw propellers are being built with greater diameter and with four to five blades, and they rotate more slowly. The stern tip of the submarine's hull has been elongated so that the convergence angle is about 10°. This measure has decreased the chances of their being recognized by sonar. Further steps to prevent detection include the use of synthetic and rubber materials in vibrating parts, lining of the inner hull surface with lead or fiber glass insulation, and sound-proof coverings for doors, hatches, and instruments.

Cord 1/1 SUB CODE: 13/ SUBM DATE: none/ ORIG REF: 002

PROSTAKOV. A.L., dotsent, kand.voyenno-worskikh nauk, inzhener-kapitan 1-go ranga

Prospects for increasing the range of hydroacoustical means of observation. Mor. sbor. 47 no.11:67-74 N '63. (MIRA 16:11)

PROSTAKOV, Anatoliy Leonidovich; LAPSHIN, V.P., kand. voenno-morsk.
nauk, retsenzent; STASHKEVICH, A.P., otv. red.; LESKOVA, L.R., red.

[Underwater acoustics in foreign navies; according to materials of the foreign press] Gidroakustika v inostrannykh flotakh; po materialam zarubezhnoi pechati. Leningrad, Sudostroenie, 1964. 154 p. (MIRA 17:4)

PROSTAKOV, Anatoliy Leonidovich, kand.voyenno-morskikh nauk, inzh.-kapitan 2 ranga; KARASEV, A.Ye., kapitan 1 ranga, red.; MEDEIKOVA, A.H., tekhn.red.

[Antisubmarine defense of merchant ships; from the experience of foreing fleets] Protivolodochnaia oborona torgovykh sudov; po opytu inostrannykh flotov. Moskva, Voen.izd-vo M-va obor.SSSR, 1960. 171 p. (MIRA 13:10)

(Submarine Warfare)

PROSTAKOV, Anatoliy Leonidovich; VYZVILKO, S.A., inzh.-kapitan 2 ranga, red.; SRIBNIS, N.V., tekhn. red.

[Underwater acoustics in the navy] Gidroakustika v voennomorskom flote. Moskva, Voen.izd-vo M-va oborony SSSR, 1961. 139 p. (MIRA 15:2) (Underwater acoustics) (Naval reconnaissance)

PROSTA	. F.A., kand, tekhn, nau	ık.	,, ,			
	Calibration of a spille 73-92 157.		(NIRA 11:4)			
	(Hydraulic engineering)					

LEVENBERG, I.G., kand. veterinarnykh nauk; IVANTSOV, L.I.; PROSTAKOV, M.P.

Stachybotryotoxicosis in cattle. Veterinariia 38 no 10:38-41 0 161. (MIRA 16:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut veterinarnoy sanitarii (for Levenberg). 2. Upravleniye veterinarii Ministerstva sel'skogo khozyaystva RSFSR (for Ivantsov). 3. Nachal'nik veterinarnogo otdela Kurskogo oblastnogo upravleniya sel'skogo khozyaystva (for Prostakov).

(Cattle-Diseases and pests) (Fungi, Pathogenic)

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001343310016-9

PROSTAKOV, M. P., LEVENBERG, I. G. and IVANTSOV, L. I. (Head of Veterinary Department, Kursk Oblast' Administration of Agriculture; Candidate of Veterinary Sciences, All-Union Scientific-Research Institute of Veterinary Sanitation; and Chief Veterinary Surgeon, Administration of Veterinary Medicine, RSFSR Ministry of Agriculture)

"Stachbotrys toxicosis in cattle"

Veterinariya, Vol. 38, no. 10, October 1961, pp. 38

Prostakov, - Nd. Vet Dept. Kursk Oblast Gelmin of Ciquie

LEVIN, A.I.; PROSTAKOV, M.Ye.

Passivation of tin plate as a means for protecting food containers from corrosion. Kons. i ov. prom. 14 no.11:18-22 N *59. (MIRA 13:2)

1. Ural'skiy politekhnicheskiy institut imeni S.M. Kirova (for Levin)
2. Ural'skiy nauchno-issledovatel'skiy institut chernykh metallov (for Prostakov).

(Tin plate--Corrosion) (Tin cans--Corrosion)

S/137/61/000/011/115/123 A060/A101

AUTHORS:

Shayevich, A.B., Prostakov, M.Ye.

TITLE:

Determining the composition of the surface layers of metals, alloys, and electrically nonconducting substances by the method of spectral analysis of large portions of the specimen surface

PERIODICAL:

Referativnyy zhurnal, Metallurgiya, no. 11, 1961, 8, abstract 11K46. ("Byul. nauchno-tekhn. inform. Ural'skiy n.-1. in-t chern.

metallov", 1960, No 8, 108 - 110)

TEXT: In order to determine the quantity of Cr deposited on the surface of tin plate specimens in the shape of circular disks 70 mm diameter were subjected to spectral analysis. A condensed spark obtained by means of a standard generator $M\Gamma$ -3 (IG-3) (L 0.01 μ f. H 0.05 mh) was used as the exciting source. The spectra obtained in the first and subsequent spark treatments of one and the same portion of the surface of the specimen, contain the lines of one and Fe. The intensity of these lines varies in accordance with the variation in the concentration of the elements from the surface to the depth

Card 1/2

Determining the composition of the

S/137/61/000/011/115/123 A060/A101

of the specimen. The Cr content in the surface layer constituted about 4.10^{-10} g/cm². An estimate was made of the stability of the passive films on the tin plate in solutions of alkalis and acids as a function of variation in temperature of the solutions, and the composition of the surface layer of passivated specimens of galvanized Fe, of brass J162 (I62) and of electrolytic Cu clad with cally nonconducting surface layers or of layers on nonconducting backings, it is possible to use two electrodes of neutral materials, situated at an angle electrodes.

L. Vorob'yeva

[Abstracter's note: Complete translation]

Card 2/2

Cand Tech Sci - (diss) "Study of processes of passivation of tin and zinc surfaces in alkaline solutions." Sverdlovsk, 1961. 16 pp; (Ministry of Higher and Secondary Specialist Education RSFSR, Ural Polytechnic Inst imeni S. M. Kirov); 150 copies; price not given; PROSTAKOV, M. Ye.

(KL, 5-61 sup, 192)

s/081/62/000/012/019/063 B168/B101

AUTHORS:

Shayevich, A. B., Prostakov, M. Ye.

TITLE:

Determination of the composition of surface layers of metals, alloys and non-conducting materials by spectrum analysis of

large areas of the surface of a sample

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 12, 1962, 163, abstract 12D140 (Sb. "Nekotoryye vopr. emission. i molekulyarn. spektroskopii". Krasnoyarsk, 1960, 78 - 81)

TEXT: The application of spectrum analysis methods to the study of the composition of thin surface layers is limited by the relatively large depth effect of the arc or spark discharge. In order to eliminate this disadvantage it is proposed that the moving-electrode method should be used. With this method the specimen being analysed is continuously displaced in relation to the upper electrode during the spectrum-recording process. The extent to which the affected depth of the surface layer can be reduced is limited in this case by the depth affected by the single spark discharge - either by the unit spark of the a.c. arc or by the per-

Card 1/2

Determination of the composition of ...

S/081/62/006/012/019/063 B168/B101

sistence of the d.c. arc. The advantage of this method lies in the fact that the non-uniformities of the layer under examination are averaged out. The specimens being analyzed are moved by means of an CA -2 (SD-2) electric motor which rotates a moving stage at a speed of 1 rpm. The spectra are excited in the discharge of a condensed spark from an NT-3 (IG-3) generator (C = 0.01 μ f, L = 0.05 mh). A study of the surface composition of unpassivated, electrochemically passivated and chemically passivated samples of tinplate showed that 4 · 10 - 10 g Cr per cm² of surface was present in the case of the last group of samples only, which agrees with the authors' theory of the rules governing passivation. tion of the composition of non-conducting surface layers it is possible For determinato use two electrodes of inert materials set at an angle of 45° to the surface of the specimen. The substance of the surface layer is vaporized by drawing the flame of the arc downwards by means of a superimposed magnetic field. Results of analyses by this method depend largely on the structure and composition of the specimen. [Abstracter's note: Complete translation.]

Card 2/2

PROSTAKOV, M.Y.

Passivation of tin plate. Kon.i ov.prom. 17 no.11:27-30 N '62.

(MIRA 15:11)

1. Ural'skiy nauchno-issledovatel'skiy institut chernykh metallov.

(Tin-plate--Corrosion)

LEVIN, A. I.; PROSTAKOV, M.Ye.; KOCHERGIN, V.P.

Thickness of passive films on tin and their protective action. Zhur. prikl. khim. 33 no.9:2102-2108 S 60. (MIRA 13:10)

l. Ural'skiy politekhnicheskiy institut im. Kirova i Ural'skiy nauchno-issledovatel'skiy institut chernykh metallov.

(Films (Chemistry)) (Tin) (Passivation)

\$/081/61/000/002/003/023 A005/A105

Translation from: Referativnyy zhurnal, Khimiya, 1961, No. 2, p. 283, # 21221

Prostakov, M.Ye., Kochergin, V.P., Levin, A.I. AUTHORS:

The Investigation of Corrosion of Passivated Tin Plate TITLE:

"Byul. nauchno-tekhn. inform. Ural'skiy n.-1. in-t chern.metallov", PERIODICAL:

1959, No. 7, pp. 76 - 82

The investigation of the corrosion rate of non-passivated, chemical TEXT: ly and electrochemically passivated tin plate showed that the passivation of tin plate increases its resistance to aggressive media: electrochemically passivated tin plate has a higher corrosion resistance than chemically passivated tin plate in 3% CH_COOH, tomato sauce, NaCl, and animal fat. Chemically passivated tin plate is resistant under the conditions of action of fish preserves. It is established that the corrosion of tin plate in a gas medium totally depends on its coating porosity and is independent on the passivation method.

From authors' summary

Translator's note: This is the full translation of the original Russian abstract. Card 1/1

KOCHERGIN, V.P.; PROSTAKOV, M.Ye.; NIMVITSKAYA, A.T.

Porosity of tin plate coating. Kons. i ov. prom. 14 no.11:22-27

(MIRA 13:2)

1. Ural'skiynauchno-issledovatel'skiy institut chernykh metallov. (Tin cans--Corrosion)

137-58-6-12914

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 247 (USSR)

AUTHORS: Tsekhanskiy, M.I., Prostakov, M.Ye., Kolpakov, I.P.

TITLE:

On the Reasons of Formation of "Bubble" Flaws on White Tin and Preventive Methods Therefor (O prichinakh vozniknoveniya poroka "puzyr" na beloy zhesti i merakh bor'by s nim)

PERIODICAL: Byul. nauchno-tekhn. inform. Ural'skiy n.-i. in-t chernykh metallov, 1957, Nr 3, pp 131-139

ABSTRACT:

The causes of the fault are the following; sulfide and sulf-oxide impurities in the steel; insufficient and nonuniform heating of ingots in the absence of turning manipulation; H₂ diffusion into the defective areas of the metal during the pickling of the tin. In order to avoid the formation of "bubbles" and to improve the quality of the tin, the content of S in the finished steel should be $\leq 0.03\%$; the loading of ingots into the heating kiln should be done at 700-800°C; the temperature of sulfuric-acid pickling solution during the rough pickling process should be $\leq 65°$; the activity of the addition agent should be $\geq 85\%$.

1. Steel--Coatings 2. Tin coatings--Properties G.K.

Card 1/1

3. Steel--Pickling

LEVIN, A.I.; PROSTAKOV, M.Ye.; KOCHERGIN, V.P. (SVERDLOVSK)

Anodic passivation of tin plate in sodium hydroxide solutions.

Zhur.fiz.khim. 34 no:5:1117-1120 My '60. (MIRA 13:7)

1. Ural'skiy institut metallov i Ural'skiy politekhnicheskiy institut im. S.M.Kirova, Sverdlovsk.

(Tin plate)

(Fassivation)

137-58-6-13906

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 385 (USSR)

Shayevich, A.B., Kobyakova, E.V., Men'shikova, Z.P., AUTHORS:

Prostakov, M.Ye.

Spectrometric Analysis for Iron, Tin, and Zinc in the Flux of TITLE:

Tin-plating Equipment (Spektral'nyy analiz flyusa ludil'nykh

apparatov na zhelezo, olovo i tsink)

Byul. nauchno-tekhn. inform. Ural'skiy n.-i. in-t chernykh PERIODICAL:

metallov, 1957, Nr 3, pp 169-172

A weighed portion is dissolved in HCl. The introduction of the dissolved matter into the discharge zone is accomplished by ABSTRACT:

burning an ash-free filter paper impregnated with the solution being analyzed. A description of the device by means of which this incineration is performed is given. Photography is made by the ISP-22 spectrograph with an exposure of 50 sec; spectra are produced by an A-C arc, with a current of 6 amp. Analyt-

ical pairs of lines are: Sn 2661.25 - Zn 2756.45, Fe 2730.55 -Zn 2756.45. The mean-square error of three determinations is

A.Sh.

N5%. A comparative table of the results of spectrographic and chemical analyses of the fluxes is adduced. 1. Iron-Determination 2. Tin --Determination 3. Zinc--Determination 4. Spectrographic analysis--Appli-

cations

Card 1/1

SHUBINA, S.B.; SHAYEVICH, A.B.; PROSTAKOV, M.Ye.; BASOVA, Ye.P.

Simplified method for determining tin content of canned food by means of spectrum analysis. Kons.i ov.prom. 14 no.12:30-31 D '59.

1. Ural'skiy nauchno-issledovatel'skiy institut chernykh metallov.

(Food, Canned-Analysie) (Tin-Spectra)

SOV/133-59-3-19/32

Kochergin, V.P., Prostakov, M.Ye. and Tarasova, A.A.

Electrochemical Degreasing of Cold-rolled Sheets AUTHORS: TITIE:

(Elektrokhimicheskoye obezzhirivaniye kholodnokatanoy

zhesti)

Stal', 1959, Nr 3, pp 252 - 254 (USSR) PERIODICAL:

The ability of emulsifying agents (sodium silicate, OP-7, OP-10, cleic acid and Petrov's reagent) for decreasing ABSTRACT: surface tension of a degreasing solution (containing: 10 g/litres NaOH, 23 g/litres Na₂CO₃ and 21 g/litres

It was found that

Na₃PO₄) at 70 - 90 °C was established. cathodic degreasing of sheets rolled with the application of aqueous emulsions of castor oil and emulsol should be carried out under the following optimum conditions:

current density of 10-15 A/dm2 (with palm oil emulsion -

25 A/dm²), temperature of the degreasing solution not lower than 80 °C. The duration of the process 1 - 3 sec. The concentrations of emulsifying agents in the degreasing solution are given in the text. There are 1 figure and

9 references, 7 of which are Soviet and 2 English.

Card1/2

3377/133-55-3-19/32

Electrochemical Degreasing of Cold-rolled Sheess

Ural'skiy nauchno-issledovatel'skiy institut chernykh metallov (Urals Scientific Research Institute for Ferrous Metals) ASSOCIATION:

Card 2/2